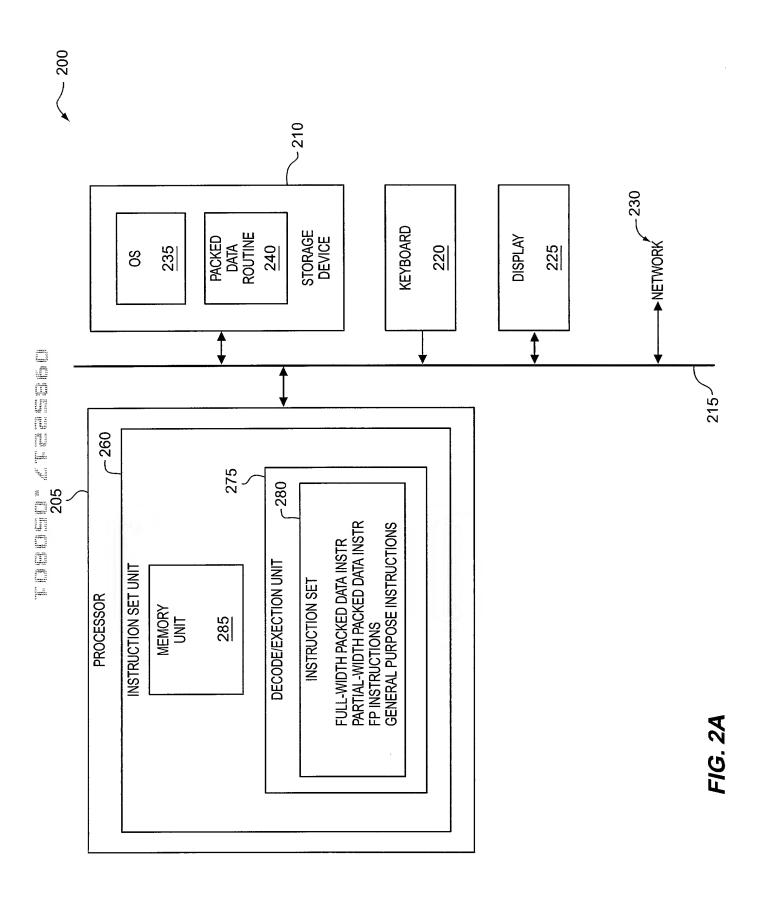
0X		Υ ₀		Z ₀
X,	Q	Υ1		Z1
X ₂	ADD	Υ2	\rightarrow	Z ₂
X³		۲ ₃		Z 3

FIG. 1 PRIOR ART



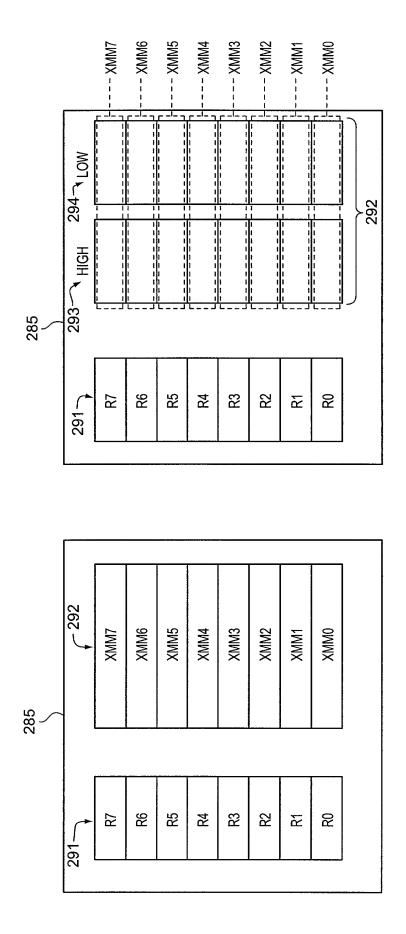


FIG. 2B

FIG. 2C

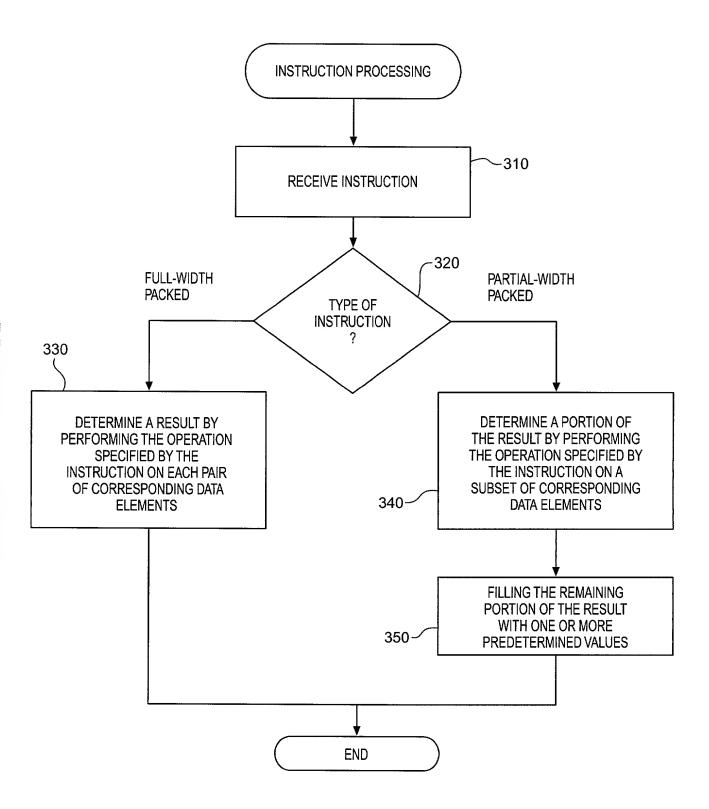


FIG. 3

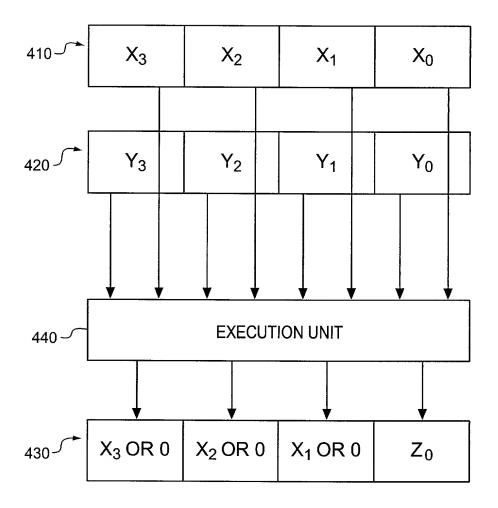


FIG. 4

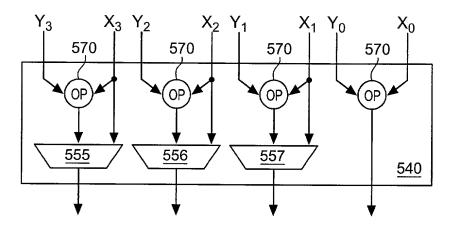


FIG. 5A

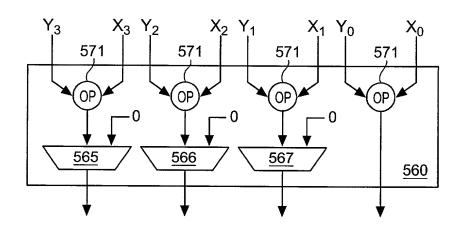
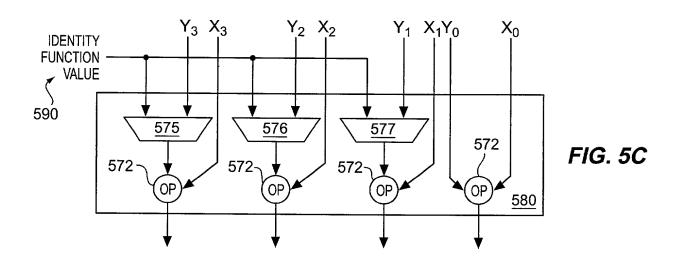


FIG. 5B



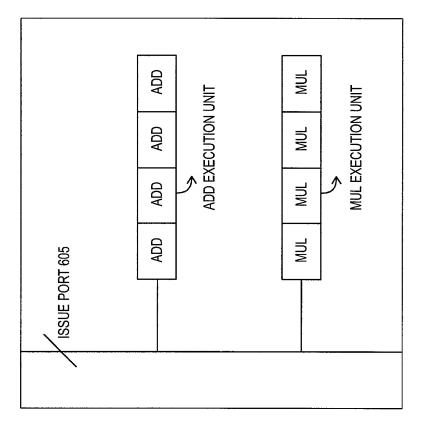


FIG. 6

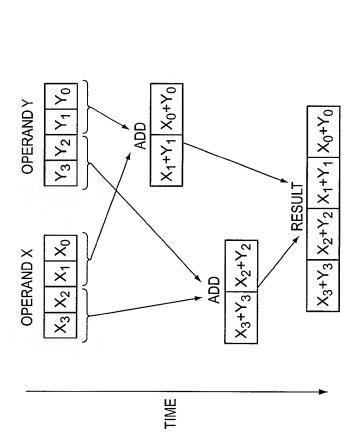
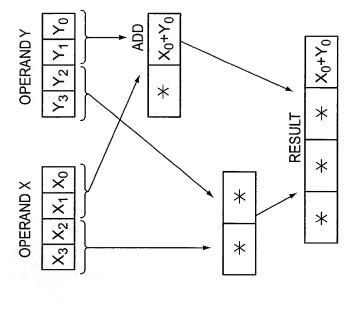


FIG. 7A



* = CORRESPONDING DATA ELEMENT IN X OR Y, NaN, 0, OR OTHER PREDETERMINED VALUE

FIG. 7B

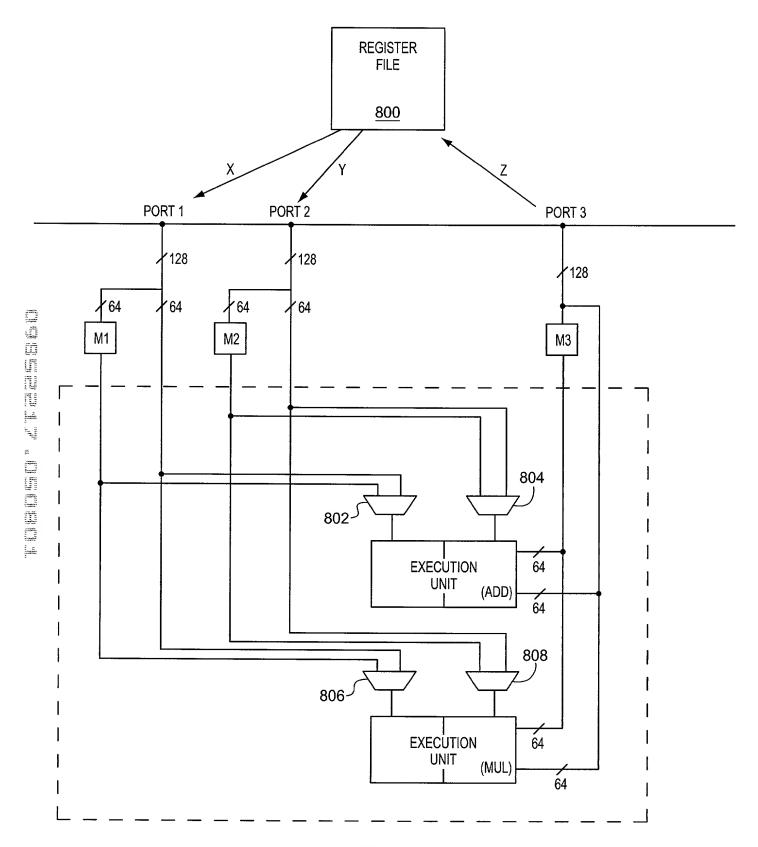
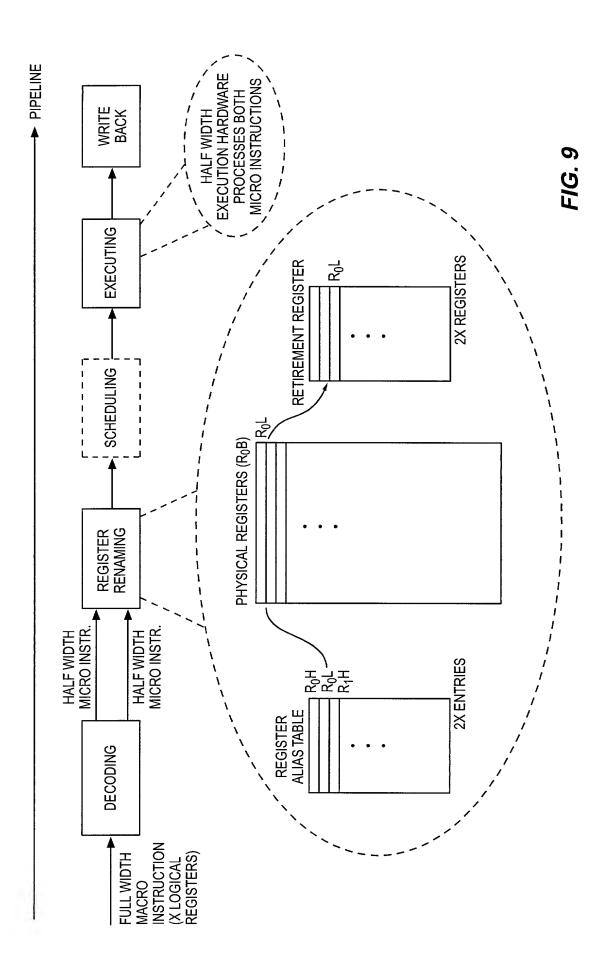


FIG. 8A

TIME	128-BIT INSTRUCTION	PERFORMED ON 64-BIT DATA
L	ADD X,Y	ADD $X_0 Y_0$ ADD $X_1 Y_1$
T+1		$\begin{array}{cccccccccccccccccccccccccccccccccccc$
T+1	MUL X, Y	$\begin{array}{ccc} MUL & X_0 & Y_0 \\ & & & \\ & &$
T+2		$\longrightarrow MUL X_2 Y_2$ $\longrightarrow MUL X_3 Y_3$

FIG. 8B



TIME	128-BIT INSTRUCTION 64-BIT INSTRUCTION	64-BIT INSTRUCTION
—	ADD X,Y	→ ADD X _L ,Y _L
N + L		→ ADD X _H ,Y _H

FIG. 10

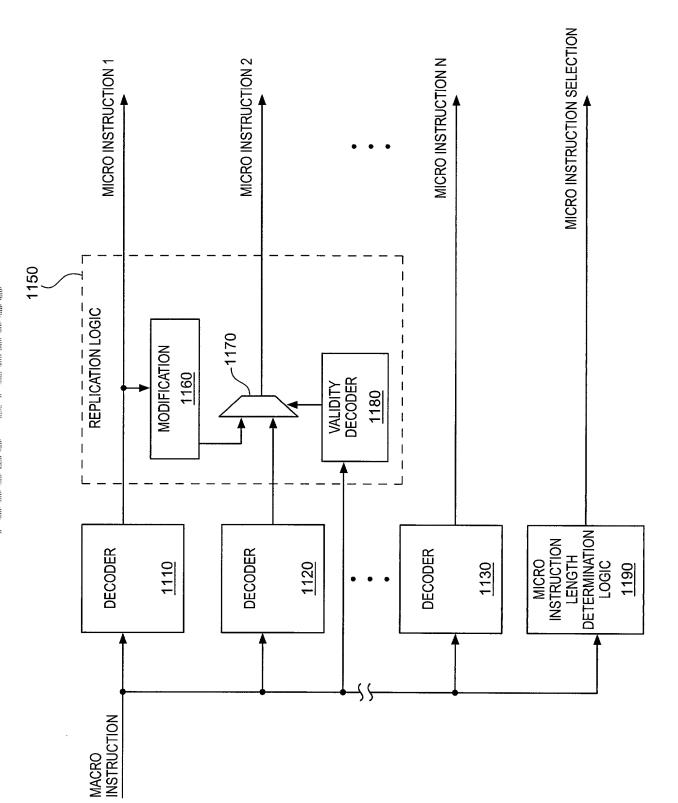


FIG. 11